

# Herbert F Jelinek

## List of Publications by Year in descending order

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244  
papers

6,437  
citations

101384

36  
h-index

85405

71  
g-index

252  
all docs

252  
docs citations

252  
times ranked

7714  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Retinal vessel segmentation using the 2-D Gabor wavelet and supervised classification. IEEE Transactions on Medical Imaging, 2006, 25, 1214-1222.   | 5.4 | 1,229     |
| 2  | Quantitating the subtleties of microglial morphology with fractal analysis. Frontiers in Cellular Neuroscience, 2013, 7, 3.   | 1.8 | 395       |
| 3  | Depression, Comorbid Anxiety Disorders, and Heart Rate Variability in Physically Healthy, Unmedicated Patients: Implications for Cardiovascular Risk. PLoS ONE, 2012, 7, e30777.                                  | 1.1 | 331       |
| 4  | Use of Fractal Theory in Neuroscience: Methods, Advantages, and Potential Problems. Methods, 2001, 24, 309-321.   | 1.9 | 156       |
| 5  | Neurons and fractals: how reliable and useful are calculations of fractal dimensions?. Journal of Neuroscience Methods, 1998, 81, 9-18.   | 1.3 | 154       |
| 6  | Validating Retinal Fundus Image Analysis Algorithms: Issues and a Proposal. , 2013, 54, 3546.   |     | 142       |
| 7  | Fractals in the Neurosciences, Part I: General Principles and Basic Neurosciences. Neuroscientist, 2014, 20, 403-417.   | 2.6 | 142       |
| 8  | Oxidative DNA damage and obesity in type 2 diabetes mellitus. European Journal of Endocrinology, 2011, 164, 899-904.  | 1.9 | 139       |
| 9  | Points of Interest and Visual Dictionaries for Automatic Retinal Lesion Detection. IEEE Transactions on Biomedical Engineering, 2012, 59, 2244-2253.  | 2.5 | 115       |
| 10 | A Hybrid Feature Selection With Ensemble Classification for Imbalanced Healthcare Data: A Case Study for Brain Tumor Diagnosis. IEEE Access, 2016, 4, 9145-9154.  | 2.6 | 114       |
| 11 | Identifying diabetic patients with cardiac autonomic neuropathy by heart rate complexity analysis. BioMedical Engineering OnLine, 2009, 8, 3.   | 1.3 | 94        |
| 12 | Inflammation, coagulation, endothelial dysfunction and oxidative stress in prediabetes – Biomarkers as a possible tool for early disease detection for rural screening. Clinical Biochemistry, 2015, 48, 581-585. | 0.8 | 79        |
| 13 | ECG Biometric with Abnormal Cardiac Conditions in Remote Monitoring System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 1498-1509.   | 5.9 | 69        |
| 14 | Advancing Bag-of-Visual-Words Representations for Lesion Classification in Retinal Images. PLoS ONE, 2014, 9, e96814.   | 1.1 | 69        |
| 15 | Inflammation and oxidative stress markers in diabetes and hypertension. Journal of Inflammation Research, 2018, Volume 11, 61-68.   | 1.6 | 68        |
| 16 | Clinical profiles, comorbidities and complications of type 2 diabetes mellitus in patients from United Arab Emirates. BMJ Open Diabetes Research and Care, 2017, 5, e000427.                                      | 1.2 | 67        |
| 17 | Dye-coupling among neurons of the rat locus coeruleus during postnatal development. Neuroscience, 1993, 56, 129-137.  | 1.1 | 63        |
| 18 | Assessment Methods of Post-stroke Gait: A Scoping Review of Technology-Driven Approaches to Gait Characterization and Analysis. Frontiers in Neurology, 2021, 12, 650024.   | 1.1 | 60        |

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|----|--|-----|-----------|
| 19 | Erythrocyte Oxidative Damage in Chronic Fatigue Syndrome. Archives of Medical Research, 2007, 38, 94-98.   | 1.5 | 56        |
| 20 | An approach for Ewing test selection to support the clinical assessment of cardiac autonomic neuropathy. Artificial Intelligence in Medicine, 2013, 58, 185-193.   | 3.8 | 56        |
| 21 | Cardiac Autonomic Dysfunction in Type 2 Diabetes – Effect of Hyperglycemia and Disease Duration. Frontiers in Endocrinology, 2014, 5, 130.   | 1.5 | 56        |
| 22 | Identifying Common Genetic Risk Factors of Diabetic Neuropathies. Frontiers in Endocrinology, 2015, 6, 88.   | 1.5 | 56        |
| 23 | Hyperglycaemia, oxidative stress and inflammatory markers. Redox Report, 2017, 22, 257-264.  | 1.4 | 56        |
| 24 | Automated segmentation of retinal blood vessels and identification of proliferative diabetic retinopathy. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1448.                       | 0.8 | 55        |
| 25 | Vitamin E supplementation during the dry period in dairy cattle. Part II: Oxidative stress following vitamin E supplementation may increase clinical mastitis incidence postpartum. Journal of Dairy Science, 2010, 93, 5696-5706. | 1.4 | 54        |
| 26 | Association of cardiac autonomic neuropathy with alteration of sympatho-vagal balance through heart rate variability analysis. Medical Engineering and Physics, 2010, 32, 161-167.   | 0.8 | 52        |
| 27 | Assessing the Need for Referral in Automatic Diabetic Retinopathy Detection. IEEE Transactions on Biomedical Engineering, 2013, 60, 3391-3398.   | 2.5 | 51        |
| 28 | Erythrocyte oxidative stress in clinical management of diabetes and its cardiovascular complications. British Journal of Biomedical Science, 2007, 64, 35-43.  | 1.2 | 49        |
| 29 | Beyond Lesion-Based Diabetic Retinopathy: A Direct Approach for Referral. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 193-200.  | 3.9 | 49        |
| 30 | 8-Hydroxy-2-deoxy-guanosine identifies oxidative DNA damage in a rural prediabetes cohort. Redox Report, 2010, 15, 155-160.  | 1.4 | 48        |
| 31 | Oxidative stress and triglycerides as predictors of subclinical atherosclerosis in prediabetes. Redox Report, 2014, 19, 87-91.   | 1.4 | 45        |
| 32 | An automated microaneurysm detector as a tool for identification of diabetic retinopathy in rural optometric practice. Australasian journal of optometry, The, 2006, 89, 299-305.  | 0.6 | 43        |
| 33 | Fractal, Multifractal, and Lacunarity Analysis of Microglia in Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2015, 3, 51.   | 2.0 | 43        |
| 34 | An innovative Multi-disciplinary Diabetes Complications Screening Program in a Rural Community: A Description and Preliminary Results of the Screening. Australian Journal of Primary Health, 2006, 12, 14.                        | 0.4 | 42        |
| 35 | Cardiac rehabilitation outcomes following a 6-week program of PCI and CABG Patients. Frontiers in Physiology, 2013, 4, 302.  | 1.3 | 41        |
| 36 | How to Calculate Renyi Entropy from Heart Rate Variability, and Why it Matters for Detecting Cardiac Autonomic Neuropathy. Frontiers in Bioengineering and Biotechnology, 2014, 2, 34.   | 2.0 | 38        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Dynamics of Forest Fragmentation and Connectivity Using Particle and Fractal Analysis. <i>Scientific Reports</i> , 2019, 9, 12228.  | 1.6  | 38        |
| 38 | Heart rate variability analysis: a useful assessment tool for diabetes associated cardiac dysfunction in rural and remote areas. <i>Australian Journal of Rural Health</i> , 2005, 13, 77-82.                               | 0.7  | 35        |
| 39 | Vitamin D receptor gene polymorphisms among Emirati patients with type 2 diabetes mellitus. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2018, 175, 119-124.  | 1.2  | 35        |
| 40 | D-dimer identifies stages in the progression of diabetes mellitus from family history of diabetes to cardiovascular complications. <i>Pathology</i> , 2007, 39, 252-257.  | 0.3  | 34        |
| 41 | Humanin: a mitochondrial signaling peptide as a biomarker for impaired fasting glucose-related oxidative stress. <i>Physiological Reports</i> , 2016, 4, e12796.  | 0.7  | 33        |
| 42 | Quantitative analysis of dendritic morphology of the alpha and delta retinal ganglion cells in the rat: A cell classification study. <i>Journal of Theoretical Biology</i> , 2009, 259, 142-150.                            | 0.8  | 31        |
| 43 | Association of cardiovascular risk using non-linear heart rate variability measures with the framingham risk score in a rural population. <i>Frontiers in Physiology</i> , 2013, 4, 186.                                    | 1.3  | 31        |
| 44 | Acute-Phase Inflammatory Response to Single-Bout HIIT and Endurance Training: A Comparative Study. <i>Mediators of Inflammation</i> , 2016, 2016, 1-6.  | 1.4  | 31        |
| 45 | Fractal analysis for studying the evolution of forests. <i>Chaos, Solitons and Fractals</i> , 2016, 91, 310-318.  | 2.5  | 31        |
| 46 | Changes in the erythrocyte glutathione concentration in the course of diabetes mellitus. <i>Redox Report</i> , 2006, 11, 99-104.  | 1.4  | 29        |
| 47 | Automated detection of proliferative retinopathy in clinical practice. <i>Clinical Ophthalmology</i> , 2008, 2, 109.  | 0.9  | 29        |
| 48 | A Comparison of Nonlinear Measures for the Detection of Cardiac Autonomic Neuropathy from Heart Rate Variability. <i>Entropy</i> , 2015, 17, 1425-1440.   | 1.1  | 29        |
| 49 | Citrus bioflavonoids dipeptidyl peptidase-4 inhibition compared with gliptin antidiabetic medications. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 21-25.                                       | 1.0  | 29        |
| 50 | Effect of GABA-Fortified Oolong Tea on Reducing Stress in a University Student Cohort. <i>Frontiers in Nutrition</i> , 2019, 6, 27.   | 1.6  | 29        |
| 51 | The "vitamin E regeneration system"™ (VERS) and an algorithm to justify antioxidant supplementation in diabetes – A hypothesis. <i>Medical Hypotheses</i> , 2008, 70, 1002-1008.  | 0.8  | 28        |
| 52 | QT Variability Index Changes With Severity of Cardiovascular Autonomic Neuropathy. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2012, 16, 900-906.   | 3.6  | 28        |
| 53 | Fractal Analysis of Cervical Intraepithelial Neoplasia. <i>PLoS ONE</i> , 2014, 9, e108457.   | 1.1  | 28        |
| 54 | Multistage fusion approaches based on a generative model and multivariate exponentially weighted moving average for diagnosis of cardiovascular autonomic nerve dysfunction. <i>Information Fusion</i> , 2018, 41, 105-118. | 11.7 | 28        |

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|----|--|-----|-----------|
| 55 | Predicting cardiac autonomic neuropathy category for diabetic data with missing values. <i>Computers in Biology and Medicine</i> , 2013, 43, 1328-1333.  | 3.9 | 27        |
| 56 | Immediate and long term effects of endurance and high intensity interval exercise on linear and nonlinear heart rate variability. <i>Journal of Science and Medicine in Sport</i> , 2017, 20, 312-316.                 | 0.6 | 27        |
| 57 | Destruction by anti-NGF of autonomic, sudomotor neurones and subsequent hyperinnervation of the foot pad by sensory fibres. <i>Journal of Neuroscience Research</i> , 1988, 19, 474-482.                               | 1.3 | 26        |
| 58 | Understanding Fractal Analysis? The Case of Fractal Linguistics. <i>Complexus</i> , 2006, 3, 66-73.  | 0.7 | 26        |
| 59 | Increased Total Heart Rate Variability and Enhanced Cardiac Vagal Autonomic Activity in Healthy Humans with Sinus Bradycardia. <i>Baylor University Medical Center Proceedings</i> , 2010, 23, 368-370.                | 0.2 | 26        |
| 60 | Retinal Image Quality Analysis for Automatic Diabetic Retinopathy Detection. , 2012, , .   |     | 26        |
| 61 | PYRAMIDAL NEURONES IN MACAQUE VISUAL CORTEX: INTERAREAL PHENOTYPIC VARIATION OF DENDRITIC BRANCHING PATTERNS. <i>Fractals</i> , 2001, 09, 287-295.   | 1.8 | 25        |
| 62 | Relationship between MTHFR C677T and A1298C gene polymorphisms and complications of type 2 diabetes mellitus in an Emirati population. <i>Meta Gene</i> , 2016, 9, 70-75.  | 0.3 | 25        |
| 63 | Glucagon like peptide-1 and its receptor agonists: Their roles in management of Type 2 diabetes mellitus. <i>Diabetes and Metabolic Syndrome: Clinical Research and Reviews</i> , 2017, 11, 225-230.                   | 1.8 | 25        |
| 64 | DENDRITIC BRANCHING PATTERNS OF PYRAMIDAL CELLS IN THE VISUAL CORTEX OF THE NEW WORLD MARMOSET MONKEY, WITH COMPARATIVE NOTES ON THE OLD WORLD MACAQUE MONKEY. <i>Fractals</i> , 2001, 09, 297-303.                    | 1.8 | 23        |
| 65 | BOX-COUNTING ANALYSIS OF MICROGLIA FORM IN SCHIZOPHRENIA, ALZHEIMER'S DISEASE AND AFFECTIVE DISORDER. <i>Fractals</i> , 2008, 16, 103-107.   | 1.8 | 23        |
| 66 | Estimating Left Ventricle Ejection Fraction Levels Using Circadian Heart Rate Variability Features and Support Vector Regression Models. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 746-754. | 3.9 | 23        |
| 67 | Machine learning and pattern classification in identification of indigenous retinal pathology. , 2011, 2011, 5951-4.   |     | 22        |
| 68 | Risk stratification of cardiac autonomic neuropathy based on multi-lag Entropy. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 537-546.   | 1.6 | 22        |
| 69 | Data analytics identify glycated haemoglobin co-markers for type 2 diabetes mellitus diagnosis. <i>Computers in Biology and Medicine</i> , 2016, 75, 90-97.  | 3.9 | 22        |
| 70 | Wavelet Packet Fractal Analysis of Neuronal Morphology. <i>Methods</i> , 2001, 24, 347-358.  | 1.9 | 21        |
| 71 | Genetic Associations With Diabetic Retinopathy and Coronary Artery Disease in Emirati Patients With Type-2 Diabetes Mellitus. <i>Frontiers in Endocrinology</i> , 2019, 10, 283.                                       | 1.5 | 21        |
| 72 | Immune response to SARS-CoV-2 variants: A focus on severity, susceptibility, and preexisting immunity. <i>Journal of Infection and Public Health</i> , 2022, 15, 277-288.  | 1.9 | 21        |

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|----|--|-----|-----------|
| 73 | The morphology and classification of alpha ganglion cells in the rat retinae: A fractal analysis study. Journal of Neuroscience Methods, 2011, 201, 281-287.   | 1.3 | 20        |
| 74 | Predicting depressed patients with suicidal ideation from ECG recordings. Medical and Biological Engineering and Computing, 2017, 55, 793-805.   | 1.6 | 20        |
| 75 | Association of Diabetes Related Complications with Heart Rate Variability among a Diabetic Population in the UAE. PLoS ONE, 2017, 12, e0168584.  | 1.1 | 20        |
| 76 | A Nanowatt Real-Time Cardiac Autonomic Neuropathy Detector. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 739-750.   | 2.7 | 19        |
| 77 | Automated classification reveals morphological factors associated with dementia. Applied Soft Computing Journal, 2008, 8, 182-190.   | 4.1 | 18        |
| 78 | Novel dynamic peak and distribution plantar pressure measures on diabetic patients during walking. Gait and Posture, 2017, 51, 261-267.  | 0.6 | 18        |
| 79 | DENDRITIC BRANCHING OF PYRAMIDAL CELLS IN THE VISUAL CORTEX OF THE NOCTURNAL OWL MONKEY: A FRACTAL ANALYSIS. Fractals, 2003, 11, 391-396.  | 1.8 | 17        |
| 80 | Atherothrombosis and oxidative stress: the connection and correlation in diabetes. Redox Report, 2009, 14, 55-60.  | 1.4 | 17        |
| 81 | Using renyi entropy to detect early cardiac autonomic neuropathy. , 2013, 2013, 5562-5.  |     | 17        |
| 82 | Data fusion for multi-lesion Diabetic Retinopathy detection. , 2012, , .   |     | 16        |
| 83 | Enhancing Predictive Accuracy of Cardiac Autonomic Neuropathy Using Blood Biochemistry Features and Iterative Multitier Ensembles. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 408-415. | 3.9 | 16        |
| 84 | Dynamic signal quality index for electrocardiograms. Physiological Measurement, 2018, 39, 105008.  | 1.2 | 16        |
| 85 | Diffusion Entropy vs. Multiscale and Rényi Entropy to Detect Progression of Autonomic Neuropathy. Frontiers in Physiology, 2020, 11, 607324.   | 1.3 | 16        |
| 86 | Principal component analysis of heart rate variability data in assessing cardiac autonomic neuropathy. , 2014, 2014, 6667-70.  |     | 15        |
| 87 | Analyzing Systolic-Diastolic Interval Interaction Characteristics in Diabetic Cardiac Autonomic Neuropathy Progression. IEEE Journal of Translational Engineering in Health and Medicine, 2015, 3, 1-10. | 2.2 | 15        |
| 88 | Detecting Subclinical Diabetic Cardiac Autonomic Neuropathy by Analyzing Ventricular Repolarization Dynamics. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 64-72.                        | 3.9 | 15        |
| 89 | Oxidative damage indices for the assessment of subclinical diabetic macrovascular complications. British Journal of Biomedical Science, 2008, 65, 136-141.   | 1.2 | 14        |
| 90 | Addressing the Complexities of Big Data Analytics in Healthcare: The Diabetes Screening Case. Australasian Journal of Information Systems, 0, 19, .  | 0.3 | 14        |

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|-----|---|-----|-----------|
| 91  | Suicidal Ideation Is Associated with Altered Variability of Fingertip Photo-Plethysmogram Signal in Depressed Patients. <i>Frontiers in Physiology</i> , 2017, 8, 501.  | 1.3 | 14        |
| 92  | Implication of genetic variants in overweight and obesity susceptibility among the young Arab population of the United Arab Emirates. <i>Gene</i> , 2020, 739, 144509.  | 1.0 | 14        |
| 93  | Decision trees and multi-level ensemble classifiers for neurological diagnostics. <i>AIMS Medical Science</i> , 2014, 1, 1-12.  | 0.2 | 14        |
| 94  | The ankle-brachial index in clinical decision making. <i>Foot</i> , 2006, 16, 153-157.  | 0.4 | 13        |
| 95  | Mathematical modelling of neuronal dendritic branching patterns in two dimensions: application to retinal ganglion cells in the cat and rat. <i>Biological Cybernetics</i> , 2009, 100, 97-108.   | 0.6 | 13        |
| 96  | Assessment of diabetic macrovascular complications: a prediabetes model. <i>British Journal of Biomedical Science</i> , 2010, 67, 59-66.  | 1.2 | 13        |
| 97  | Prediction of game performance in Australian football using heart rate variability measures. <i>International Journal of Signal and Imaging Systems Engineering</i> , 2015, 8, 80.  | 0.6 | 13        |
| 98  | Box-Counting Fractal Analysis: A Primer for the Clinician. <i>Springer Series in Computational Neuroscience</i> , 2016, , 13-43.  | 0.3 | 13        |
| 99  | Clinical and genetic associations of renal function and diabetic kidney disease in the United Arab Emirates: a cross-sectional study. <i>BMJ Open</i> , 2018, 8, e020759.   | 0.8 | 13        |
| 100 | Reliability of heart-rate-variability features derived from ultra-short ECG recordings and their validity in the assessment of cardiac autonomic neuropathy. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102651.              | 3.5 | 13        |
| 101 | Management of hypertension in patients with diabetes mellitus. <i>Experimental and Clinical Cardiology</i> , 2010, 15, 5-8.   | 1.3 | 13        |
| 102 | Heart rate stability and decreased parasympathetic heart rate variability in healthy young adults during perceived stress. <i>International Journal of Cardiology</i> , 2012, 156, 337-338.   | 0.8 | 12        |
| 103 | Box-Counting and Multifractal Analysis in Neuronal and Glial Classification. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 177-189.  | 0.5 | 12        |
| 104 | Temporal dynamics of the circadian heart rate following low and high volume exercise training in sedentary male subjects. <i>European Journal of Applied Physiology</i> , 2015, 115, 2069-2080.   | 1.2 | 12        |
| 105 | Methodological Comparisons of Heart Rate Variability Analysis in Patients With Type 2 Diabetes and Angiotensin Converting Enzyme Polymorphism. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 55-63.                    | 3.9 | 12        |
| 106 | Interaction of homocysteine, glutathione and 8-hydroxy-2'-deoxyguanosine in metabolic syndrome progression. <i>Clinical Biochemistry</i> , 2017, 50, 116-120.   | 0.8 | 12        |
| 107 | Recent Deforestation Pattern Changes (2000-2017) in the Central Carpathians: A Gray-Level Co-Occurrence Matrix and Fractal Analysis Approach. <i>Forests</i> , 2019, 10, 308.   | 0.9 | 12        |
| 108 | AUTOMATED MORPHOMETRIC ANALYSIS OF THE CAT RETINAL $\hat{I}_{\pm/Y}$ , $\hat{I}^2/X$ AND $\hat{I}$ GANGLION CELLS USING WAVELET STATISTICAL MOMENT AND CLUSTERING ALGORITHMS. <i>Journal of Integrative Neuroscience</i> , 2004, 03, 415-432. | 0.8 | 11        |

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|-----|---|-----|-----------|
| 109 | Electric Pulse Frequency and Magnitude of Perceived Sensation During Electrocutaneous Forearm Stimulation. Archives of Physical Medicine and Rehabilitation, 2010, 91, 1378-1382.                     | 0.5 | 11        |
| 110 | Ultrasound-mediated drug delivery by gas bubbles generated from a chemical reaction. Journal of Drug Targeting, 2018, 26, 172-181.  | 2.1 | 11        |
| 111 | Heart rate variability and complexity in people with diabetes associated cardiac autonomic neuropathy. , 2008, 2008, 4696-9.  |     | 10        |
| 112 | Increased markers of cardiac vagal activity in leucine-rich repeat kinase 2-associated Parkinsonâ€™s disease. Clinical Autonomic Research, 2019, 29, 603-614.   | 1.4 | 10        |
| 113 | Evolution, Ecology, and Zoonotic Transmission of Betacoronaviruses: A Review. Frontiers in Veterinary Science, 2021, 8, 644414.   | 0.9 | 10        |
| 114 | Multi-layer Attribute Selection and Classification Algorithm for the Diagnosis of Cardiac Autonomic Neuropathy Based on HRV Attributes. AIMS Medical Science, 2015, 2, 396-409.                       | 0.2 | 10        |
| 115 | Detection of Congestive Heart Failure using Renyi Entropy. , 0, , .   |     | 10        |
| 116 | Deep Learning Predicts Heart Failure With Preserved, Mid-Range, and Reduced Left Ventricular Ejection Fraction From Patient Clinical Profiles. Frontiers in Cardiovascular Medicine, 2021, 8, 755968. | 1.1 | 10        |
| 117 | Risk Stratification in Heart Failure Using 123I-MIBG. Journal of Nuclear Medicine Technology, 2011, 39, 295-301.  | 0.4 | 9         |
| 118 | Diagnosis of oligodendroglioma: Molecular and classical histological assessment in the twenty-first century. Asia-Pacific Journal of Clinical Oncology, 2012, 8, 213-216.                             | 0.7 | 9         |
| 119 | Complexity of heart rate variability in type 2 diabetes - effect of hyperglycemia. , 2013, 2013, 5558-61.   |     | 9         |
| 120 | Empirical Investigation of Decision Tree Ensembles for Monitoring Cardiac Complications of Diabetes. International Journal of Data Warehousing and Mining, 2013, 9, 1-18.                             | 0.4 | 9         |
| 121 | Multiscale analysis of tortuosity in retinal images using wavelets and fractal methods. Pattern Recognition Letters, 2015, 68, 132-138.   | 2.6 | 9         |
| 122 | A Clustering-Based Multi-Layer Distributed Ensemble for Neurological Diagnostics in Cloud Services. IEEE Transactions on Cloud Computing, 2020, 8, 473-483.   | 3.1 | 9         |
| 123 | HLA repertoire of 115 UAE nationals infected with SARS-CoV-2. Human Immunology, 2022, 83, 1-9.  | 1.2 | 9         |
| 124 | Short-term ECG recording for the identification of cardiac autonomic neuropathy in people with diabetes mellitus. AIP Conference Proceedings, 2007, , .   | 0.3 | 8         |
| 125 | Awareness and Pharmacotherapy of Hypertension in a Rural Community. Medical Principles and Practice, 2009, 18, 261-265.   | 1.1 | 8         |
| 126 | Richardson's Method of Segment Counting versus Box-Counting. , 2013, , .  |     | 8         |



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|-----|--|-----|-----------|
| 127 | Effect of biosignal preprocessing and recording length on clinical decision making for cardiac autonomic neuropathy. , 2014, , .   |     | 8         |
| 128 | Diagnostic Accuracy of Random ECG in Primary Care for Early, Asymptomatic Cardiac Autonomic Neuropathy. Journal of Diabetes Science and Technology, 2017, 11, 1165-1173.                     | 1.3 | 8         |
| 129 | Effects of Kinesiology Tape on Non-linear Center of Mass Dispersion During the Y Balance Test. Frontiers in Physiology, 2018, 9, 1527.   | 1.3 | 8         |
| 130 | Revisiting Left Ventricular Ejection Fraction Levels: A Circadian Heart Rate Variability-Based Approach. IEEE Access, 2021, 9, 130111-130126.  | 2.6 | 8         |
| 131 | Genomics and Epigenomics of Gestational Diabetes Mellitus: Understanding the Molecular Pathways of the Disease Pathogenesis. International Journal of Molecular Sciences, 2022, 23, 3514.    | 1.8 | 8         |
| 132 | Beyond Pathogen Filtration: Possibility of Smart Masks as Wearable Devices for Personal and Group Health and Safety Management. JMIR MHealth and UHealth, 2022, 10, e38614.                  | 1.8 | 8         |
| 133 | Angiotensin-converting enzyme gene DD genotype is associated with increased systolic blood pressure in an Australian Rural Type 2 Diabetic Cohort. Hypertension Research, 2013, 36, 381-382. | 1.5 | 7         |
| 134 | A count data model for heart rate variability forecasting and premature ventricular contraction detection. Signal, Image and Video Processing, 2017, 11, 1427-1435.                          | 1.7 | 7         |
| 135 | The Effect of Ankle Support on Lower Limb Kinematics During the Y-Balance Test Using Non-linear Dynamic Measures. Frontiers in Physiology, 2019, 10, 935.                                    | 1.3 | 7         |
| 136 | Genetics of type 2 diabetes and coronary artery disease and their associations with twelve cardiometabolic traits in the United Arab Emirates population. Gene, 2020, 750, 144722.           | 1.0 | 7         |
| 137 | Automated Multi-Lesion Detection for Referable Diabetic Retinopathy in Indigenous Health Care. PLoS ONE, 2015, 10, e0127664.   | 1.1 | 7         |
| 138 | Emerging point of care devices and artificial intelligence: Prospects and challenges for public health. Smart Health, 2022, 24, 100279.  | 2.0 | 7         |
| 139 | Chronic high dose captopril decreases total heart rate variability and increases heart rate in C57BL/6j mice. International Journal of Cardiology, 2009, 136, 211-213.                       | 0.8 | 6         |
| 140 | Automatic Diabetic Retinopathy detection using BossaNova representation. , 2014, 2014, 146-9.  |     | 6         |
| 141 | Gait alterations in the UAE population with and without diabetic complications using both traditional and entropy measures. Gait and Posture, 2017, 58, 72-77.                               | 0.6 | 6         |
| 142 | Depression and cardiac dysautonomia in eating disorders. Eating and Weight Disorders, 2018, 23, 369-374.   | 1.2 | 6         |
| 143 | Investigation of Linear and Nonlinear Properties of a Heartbeat Time Series Using Multiscale RÃ©nyi Entropy. Entropy, 2019, 21, 727.   | 1.1 | 6         |
| 144 | Human SHCâ€transforming protein 1 and its isoforms p66shc: A novel marker for prediabetes. Journal of Diabetes Investigation, 2021, 12, 1881-1889.   | 1.1 | 6         |

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|-----|---|-----|-----------|
| 145 | Genetic Variants and Their Associations to Type 2 Diabetes Mellitus Complications in the United Arab Emirates. <i>Frontiers in Endocrinology</i> , 2021, 12, 751885.  | 1.5 | 6         |
| 146 | Visualisation in biomedicine as a means of data evaluation. <i>Journal of Visualization</i> , 2011, 14, 353-359.  | 1.1 | 5         |
| 147 | Identifying increased risk of post-infarct people with diabetes using multi-lag Tone-Entropy analysis. , 2012, 2012, 25-8.  |     | 5         |
| 148 | A continuous point measure for quantifying skull deformation in medical diagnostics. <i>Healthcare Technology Letters</i> , 2014, 1, 56-58.   | 1.9 | 5         |
| 149 | Effect of gender and diabetes on major depressive disorder using heart rate asymmetry. , 2014, 2014, 6679-82.   |     | 5         |
| 150 | Human balance responses to perturbations in the horizontal plane. , 2014, 2014, 4058-61.  |     | 5         |
| 151 | Using meta-regression data mining to improve predictions of performance based on heart rate dynamics for Australian football. <i>Applied Soft Computing Journal</i> , 2014, 14, 81-87.                      | 4.1 | 5         |
| 152 | Poincar&#x00E9; plot analysis of heart rate variability in the diabetic patients in the UAE. , 2014, , .  |     | 5         |
| 153 | Electrocardiogram Derived QRS Duration > 120 ms is Associated With Elevated Plasma Homocysteine Levels in a Rural Australian Cross-Sectional Population. <i>Medicine (United States)</i> , 2015, 94, e1080. | 0.4 | 5         |
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